| Electronic Patent Application Fee Transmittal |                                    |                    |                 |                |                         |  |  |  |
|---|------------------------------------|--------------------|-----------------|----------------|-------------------------|--|--|--|
| Application Number:                           | 10796563                           |                    |                 |                |                         |  |  |  |
| Filing Date:                                  | 08-Mar-2004                        |                    |                 |                |                         |  |  |  |
| Title of Invention:                           | Sp                                 | ace-time coding fo | r multi-antenna | ultra-wideband | transmissions           |  |  |  |
| First Named Inventor/Applicant Name:          | Georgios B. Giannakis              |                    |                 |                |                         |  |  |  |
| Filer:  | Kent Joseph Sieffert/Beth Lindblom |                    |                 |                |                         |  |  |  |
| Attorney Docket Number:                       | 1008-013US01                       |                    |                 |                |                         |  |  |  |
| Filed as Large Entity                         |                                    | •                  |                 |                |                         |  |  |  |
| Utility Filing Fees                           |                                    |                    |                 |                |                         |  |  |  |
| Description                                   |                                    | Fee Code           | Quantity        | Amount         | Sub-Total in<br>USD(\$) |  |  |  |
| Basic Filing:                                 |                                    |                    |                 |                |                         |  |  |  |
| Pages:  |                                    |                    |                 |                |                         |  |  |  |
| Claims:                                       |                                    |                    |                 |                |                         |  |  |  |
| Miscellaneous-Filing:                         |                                    |                    |                 |                |                         |  |  |  |
| Petition:                                     | •                                  |                    |                 |                |                         |  |  |  |
| Patent-Appeals-and-Interference:              |                                    |                    |                 |                |                         |  |  |  |
| Post-Allowance-and-Post-Issuance:             |                                    |                    |                 |                |                         |  |  |  |
| Extension-of-Time:                            |                                    |                    |                 |                |                         |  |  |  |

| Description                             | Fee Code | Quantity | Amount | Sub-Total in<br>USD(\$) |
|---|----------|----------|--------|-------------------------|
| Miscellaneous:                          |          |          |        | ,                       |
| Submission- Information Disclosure Stmt | 1806     | 1-       | 180    | 180                     |
|   | Tota     | 180      |        |                         |

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